MATE-T580: Quiz 1

Name:

Question 1

Select the line of code used to create a numerical vector, x, which contains the values 3, 18, -6, 7:

Α.

```
x <- (3, 18, -6, 7)
```

В.

```
x <- [3, 18, -6, 7]
```

C.

```
x \leftarrow c(3, 18, -6, 7)
```

D.

```
x <- (3; 18; -6; 7)
```

Question 2

The first few rows of the iris dataset:

```
Sepal.Length Sepal.Width Petal.Length Petal.Width Species
##
                                                   0.2 setosa
## 1
              5.1
                          3.5
                                       1.4
## 2
              4.9
                          3.0
                                                   0.2 setosa
                                       1.4
## 3
              4.7
                          3.2
                                       1.3
                                                   0.2 setosa
## 4
              4.6
                          3.1
                                       1.5
                                                   0.2 setosa
              5.0
                          3.6
                                       1.4
                                                   0.2 setosa
```

Select the line of code used to print the petal length of the observation in the thrid row:

Α.

```
iris(3,4)
```

В.

```
iris[3,"Petal.Length"]
```

 $\mathbf{C}.$

```
iris[4,3]
```

D.

```
iris("Petal.Length")[3]
```

Question 3

For the same iris dataset, select the line of code used to print the average sepal length for the iris species *virginica*:

Α.

```
mean(iris$Sepal.Length[iris$Species <- "virginica"])</pre>
```

В.

```
mean(iris$Sepal.Length[iris$Species equalto c("virginica")])
```

 $\mathbf{C}.$

```
mean(iris$Sepal.Length[iris$Species = "virginica"])
```

D.

```
mean(iris[iris$Species=="virginica", 1])
```

Question 4

The first few rows of the mtcars dataset:

Select the line of code used to print the names of cars with mpg greater than 20:

Α.

mtcars[mtcars\$mpg>20,]

В.

mtcars[mtcars\$mpg>20]

$\mathbf{C}.$

mtcars\$names[mtcars\$mpg>20,]

D.

mtcars\$names[mtcars\$mpg>20]

Question 5

For the same mtcars dataset, write a single line of code to calculate the average weight of 4 cylinder cars: